

FIG. 1

1 GAGGTCCAGC TTCAGCAGTC TGGACCTGAC CTGGTGAAGC CTGGGGCTTC
 E V Q L Q Q S G P D L V K P G A S
 51 AGTGAAGATA TCCTGCAAGG CTTCTGGTTA CTCATTCACT GGCTACTACA
 V K I S C K A S G Y S F T G Y Y
 101 TGCACTGGGT GAAGCAGAGC CATGGAAAGA GCCTTGAGTG GATTGGACGT
 M H W V K Q S H G K S L E W I G R
 151 ATTAATCCTA ACAATGGTGT TACTCTCTAC AACCAGAAAT TCAAGGACAA
 I N P N N G V T L Y N Q K F K D K
 201 GGCCATATTA ACTGTAGACA AGTCATCCAC CACAGCCTAC ATGGAGCTCC
 A I L T V D K S S T T A Y M E L
 251 GCAGCCTGAC ATCTGAGGAC TCTGCGGTCT ATTACTGTGC AAGATCTACT
 R S L T S E D S A V Y Y C A R S T
 301 ATGATTACGA ACTATGTTAT GGACTACTGG GGTCAAGTAA CCTCAGTCAC
 M I T N Y V M D Y W G Q V T S V T
 351 CGTCTCCTCA GGTGGTGGTG GGAGCGGTGG TGGCGGCACT GGCGGCGGCG
 V S S G G G G S G G G G T G G G
 401 GATCTAGTAT TGTGATGACC CAGACTCCCA CATTCTGCT TGTTCAGCA
 G S S I V M T Q T P T F L L V S A
 451 GGAGACAGGG TTACCATAAC CTGCAAGGCC AGTCAGAGTG TGAGTAATGA
 C D R V T I T C K A S Q S V S N D
 501 TGTAGDTTGG TACCAACAGA AGCCAGGGCA GTCTCCTACA CTGCTCATAT
 V A W Y Q Q K P G Q S P T L L I
 551 CCTATACATC CAGTCGCTAC GCTGGAGTCC CTGATCGCTT CATTGGCAGT
 S Y T S S R Y A G V P D R F I G S
 601 GGATATGGGA CGGATTTCAC TTTCACCATC AGCACTTTGC AGGCTGAAGA
 G Y G T D F T F T I S T L Q A E D
 651 CCTGGCAGTT TATTTCTGTC AGCAAGATTA TAATTCTCCT CCGACGTTCC
 L A V Y F C Q Q D Y N S P P T F
 701 GTGGAGGCAC CAAGCTGGAA ATCAAACGG
 G G G T K L E I K R

FIG. 2

ATGGGCCACA CACGGAGGCA GGAACATCA CCATCCAAGT GTCCATACCT	50
M G H T R R Q G T S P S K C P Y L	
CAATTTCTTT CAGCTCTTGG TGCTGGCTGG TCTTTCTCAC TTCTGTTTCTG	100
N F F Q L L V L A G L S H F C S	
GTGTTATCCA CGTGACCAAG GAAGTGAAAG AAGTGGCAAC GCTGTCCTGT	150
G V I H V T K E V K E V A T L S C	
GGTCACAATG TTTCTGTTGA AGAGCTGGCA CAAACTCGCA TCTACTGGCA	200
G H N V S V E E L A Q T R I Y W Q	
AAAGGAGAAG AAAATGGTGC TGACTATGAT GTCTGGGGAC ATGAATATAT	250
K E K K M V L T M M S G D M N I	
GGCCCGAGTA CAAGAACCGG ACCATCTTTG ATATCACTAA TAACCTCTCC	300
W P E Y K N R T I F D I T N N L S	
ATTGTGATCC TGGCTCTGCG CCCATCTGAC GAGGGCACAT ACGAGTGTGT	350
I V I L A L R P S D E G T Y E C V	
TGTTCTGAAG TATGAAAAAG ACGCTTTCAA GCGGGAACAC CTGGCTGAAG	400
V L K Y E K D A F K R E H L A E	
TGACGTTATC AGTCAAAGCT GACTTCCCTA CACCTAGTAT ATCTGACTTT	450
V T L S V K A D F P T P S I S D F	
GAAATTCCAA CTTCTAATAT TAGAAGGATA ATTTGCTCAA CCTCTGGAGG	500
E I P T S N I R R I I C S T S G G	
TTTTCCAGAG CCTCACCTCT CCTGGTTGGA AAATGGAGAA GAATTAAATG	550
F P E P H L S W L E N G E E L N	
CCATCAACAC AACAGTTTCC CAAGATCCTG AACTGAGCT CTATGCTGTT	600
A I N T T V S Q D P E T E I Y A V	
AGCAGCAAAC TGGATTTCAA TATGACAACC AACCACAGCT TCATGTGTCT	650
S S K L D F N M T T N H S F M C L	
CATCAAGTAT GGACATTTAA GAGTGAATCA GACCTTCAAC TGGAATACAA	700
I K Y G H L R V N Q T F N W N T	
CCAAGCAAGA GCATTTTCCT GATGGAGGCG GGGGATCCGA GGTCCAGCTT	750
T K Q E H F P D G G G G S E V Q L	

CAGCAGTCTG GACCTGACCT GGTGAAGCCT GGGGCTTCAG TGAAGATATC 800
 Q Q S G P D L V K P G A S V K I S
 CTGCAAGGCT TCTGGTTACT CATTCACTGG CTA CTACATG CACTGGGTGA 850
 C K A S G Y S F T G Y Y M H W V
 AGCAGAGCCA TGGAAAGAGC CTTGAGTGGA TTGGACGTAT TAATCCTAAC 900
 K Q S H G K S L E W I G R I N P N
 AATGGTGTGA CTCTCTACAA CCAGAAATTC AAGGACAAGG CCATATTAAAC 950
 N G V T L Y N Q K F K D K A I L T
 TG TAGACAAG TCATCCACCA CAGCCTACAT GGAGCTCCGC AGCCTGACAT 1000
 V D K S S T T A Y M E L R S L T
 CTGAGCACTC TGCGGTCTAT TACTGTGCAA GATCTACTAT GATTACGAAC 1050
 S E D S A V Y Y C A R S T M I T N
 TATGTTATGG ACTACTGGCC TCAAGTAACC TCAGTCACCG TCTCCTCAGG 1100
 Y V M D Y W G Q V T S V T V S S G
 TGGTGGTGGG AGCGGTGGTG GCGGCACTGG CCGCGGCGGA TCTAGTATTG 1150
 G G G S G G G G T G G G G S S I
 TGATGACCCA GACTCCCACA TTCCTGCTTG TTTCAGCAGG AGACACCGTT 1200
 V M T Q T P T F L L V S A G D R V
 ACCATAACCT GCAAGGCCAG TCAGAGTGTG AGTAATGATG TAGCTTGGTA 1250
 T I T C K A S Q S V S N D V A W Y
 CCAACAGAAG CCAGGGCAGT CTCCTACACT GCTCATATCC TATACATCCA 1300
 Q Q K P G Q S P T L L I S Y T S
 GTCGCTACGC TGGAGTCCCT GATCGCTTCA TTGGCAGTGG ATATGGGACG 1350
 S R Y A G V P D R F I G S G Y G T
 GATTTCACTT TCACCATCAG CACTTTGCAG GCTGAAGACC TGGCAGTTTA 1400
 D F T F T I S T L Q A E D L A V Y
 TTTCTGTCAG CAAGATTATA ATTCTCCTCC GACGTTGCGT GGAGGCACCA 1450
 F C Q Q D Y N S P P T F G G G T
 AGCTGGAAAT CAAATAA
 K L E I K .

FIG. 2_{CONT'D}

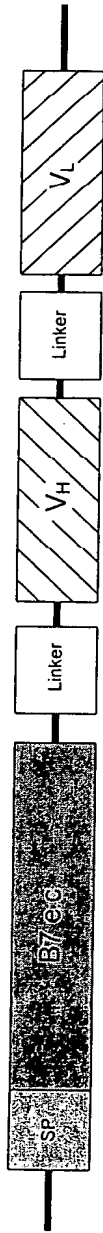


FIG. 3a

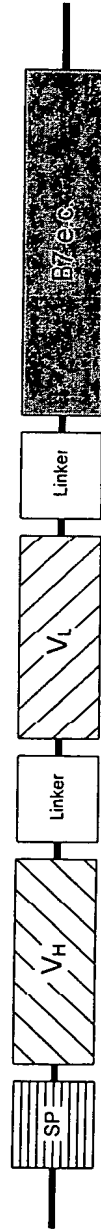


FIG. 3b

1 ATGGGACTGA GTAACATTCT CTTTGTGATG GCCTTCCTGC TCTCTGGTGC
 M G L S N I L F V M A F L L S G A
 51 TGCTCCTCTG AAGATTCAAG CTTATTTCAA TGAGACTGCA GACCTGCCAT
 A P L K I Q A Y F N E T A D L P
 101 GCCAATTTGC AACTCTCAA AACCAAAGCC TGAGTGAGCT AGTAGTATTT
 C Q F A N S Q N Q S L S E L V V F
 151 TGGCAGGACC AGGAAACTT GGTCTGAAT GAGGTATACT TAGGCAAAGA
 W Q D Q E N L V L N E V Y L G K E
 201 GAAATTTGAC AGTGTTTATT CCAAGTATAT GGGCCGCACA AGTTTTGATT
 K F D S V H S K Y M G R T S F D
 251 CGGACAGTTG GACCCTGAGA CTTCAACAATC TTCAGATCAA GGACAAGGGC
 S D S W T L R L H N L Q I K D K G
 301 TTGTATCAAT GTATCATCCA TCACAAAAAG CCCACAGGAA TGATTTCGCAT
 L Y Q C I I H H K K P T G M I R I
 351 CCACCAGATG AATTCTGAAC TGTCAGTGCT TGCTAACTTC AGTCAACCTG
 H Q M N S E L S V L A N F S Q P
 401 AAATAGTACC AATTTCTAAT ATAACAGAAA ATGTGTACAT AAATTTGACC
 E I V P I S N I T E N V Y I N L T
 451 TGCTCATCTA TACACGGTTA CCCAGAACCT AAGAAGATGA GTGTTTTGCT
 C S S I H G Y P E P K K M S V L L
 501 AAGAACCAAG AATTCAACTA TCGAGTATGA TGGTATTATG CAGAAATCTC
 R T K N S T I E Y D G I M Q K S
 551 AAGATAATGT CACAGAAGTG TACGACGTTT CCATCAGCTT GTCTGTTTCA
 Q D N V T E L Y D V S I S L S V S
 601 TTCCCTGATG TTACGAGCAA TATGACCATC TTCTGTATTC TGGAAACTGA
 F P D V T S N M T I F C I L E T D
 651 CAAGACGCGG CTTTTATCTT CACCTTTCTC TATAGAGCTT GAGGACCCTC
 K T R L L S S P F S I E L E D P
 701 AGCCTCCCCC AGACCACATT CCTGGAGGCG GGGGATCC
 Q P P P D H I P G G G G S

FIG. 4

atggtcttgc	attgtcagtt	gatgcaggat	acaccactcc	tcaagtttcc	atgtccaagg	60
ctcattcttc	tctttgtgct	gctgattcgt	ctttcacaag	tgtcttcaga	tgttgatgaa	120
caactgtcca	agtcagtgaa	agataaggta	ttgtgccttt	gccgttacaa	ctctccgcat	180
gaagatgagt	ctgaagaccg	aatctactgg	caaaaacatg	acaaaagtgt	gtgtctgtct	240
attgctggga	aactaaaagt	gtggcccgag	tataagaacc	ggactttata	tgacaacact	300
acctactctc	ttatcatcct	gggcctggtc	ctttcagacc	ggggcacata	cagctgtgtc	360
gttcaaaaga	aggaagaagq	aacqtatgaa	gttaaacact	tggctttaag	aaagttgttc	420
atcaaagctg	acttctctac	ccccaacata	actgagctcg	gaaaccctac	tgcagacact	480
aaaaggatta	cttgcctttg	ttccgggggt	tcccaaacg	ctcgctcttc	ttggttgga	540
aatggaagag	aattacctgg	catcaatacg	acaatttccc	aggatcctga	atctgaattg	600
tacaccatta	gtagcccaat	agatttcaat	acgactcgca	accacaccat	taagtgtctc	660
atataaatatg	gagatgtctc	cggtgtcagag	gacttcacct	gggaaaaacc	cccagaagac	720
ctctctgata	gcagcccggt	gggtgtgtgg	agcgggtgtg	gcggcagtg	gcgcgcgga	780
actagtggag	tccagcttca	gcagttctga	cctgacctgg	tgaagcctgg	ggcttcagt	840
aagatattctt	gcaaggcttc	tggttactca	ttcactggct	actacatgca	ctgggtgaag	900
cagagccatg	gaaagagcct	tgagtggatt	ggacgtatta	atccatacaa	tggtgttact	960
ctctacaacc	gaaatttcaa	ggacaaggcc	atattaactg	tagcaagtc	atccaccaca	1020
gcctacatgg	agctccgcag	cctgacatct	gaggactctg	cggtctatta	cttgtcaaga	1080
tctactatgt	ttacgaacta	tgttatggac	tactggggtc	aagtaacttc	agtcaccgtc	1140
tcttcagtg	gtggtgagg	cgttggtggc	ggcactggcg	gcggcggatc	tagtatattg	1200
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aaggccagtc	agagtgtgag	taatgattga	gcttggtacc	acagaagcc	agggcagctc	1320
cctacactgc	tcatatccta	tacatccagt	cgctacgctg	gagtcctga	tcgcttcatt	1380
ggcagtggtg	atgggacgga	tttcactttc	accatcagca	ctttgcaggc	tgaagacctg	1440
cgagtttatt	tctgtcagca	agattataat	tctctccga	cgttcggtgg	aggcaccaag	1500
ctggaaatca	aacggtaa					1511

FIG. 6

Leader / 5T4 scFv / HlgG DNA and deduced protein sequence

CTCGAGCCACCATTGGGATGGAGCTGTATCATCTCTTCTTGGTAGCAACAGCTACAGGTGTCCACTCCGAGGTCCAGCTG
M G W S C I I L F L V A T A T G V H S E V Q L

CAGCAGTCTGGACCTGACCTGGTGAAGCCTGGGGCTTCAGTGAAGATATCCTGCAAGGCTTCTGGTTACTCATTCACTGG
Q Q S G P D L V K P G A S V K I S C K A S G Y S F T

CTACTACATGCACTGGGTGAAGCAGGCCATGGAAAGAGCCTTGAGTGGATTGGACGTATTAATCCTAACAATGGTGTTA
G Y Y M H W V K Q S H G K S L E W I G R I N P N N G V

CTCTCTACAACCAGAAATTCAAGGACAAGGCCATATTAACGTAGACAAGTCATCCACCACAGCCTACATGGAGCTCCGC
T L Y N Q K F K D K A I L T V D K S S T T A Y M E L R

AGCCTGACATCTGAGGACTCTCGGCTCTATTACTGTGCAAGATCTACTATGATTACGAACATATGTTATGGACTACTGGGG
S L T S E D S A V Y Y C A R S T M I T N Y V M D Y W

TCAAGTAACCTTCAGTACCGTCTCTTCAGGTGGTGGTGGGAGCGGTGGTGGCGGCACTGGCGGCGGGGATCTAGTATTG
G Q V T S V T V S S G G G G S G G G G T G G G G S S I

TGATGACCCAGACTCCACATTCCTGCTTGTTCAGCAGGAGACAGGGTTACCATAACCTGCAAGGCCAGTCAGAGTGTG
V M T Q T P T F L L V S A G D R V T T T C K A S Q S V

AGTAATGATGTAGCTTGGTACCAACAGAAGCCAGGGCAGTCTCCTACACTGCTCATATCCTATACATCCAGTCGCTACGC
S N D V A W Y Q Q K P G Q S P T L L I S Y T S S R Y

TCCACTCCCTCATCGCTTCATTGGCAGTGGATATGGGACGGATTTCACITTCACCATCAGCACITTCAGGCTGAAGACC
A G V P D R F I G S G Y G T D F T F T I S T L Q A E D

TGGCAGTTTATTCTGTGTCAGCAAGATATAATTCTCCTCCGACGTTCCGGTGGAGGCCACCAAGCTTGAAATCAAACGGGCC
L A V Y F C Q Q D Y N S P P T F G G G T K L E I K R A

TCCACCAAGGGCCCATCGGCTCTCCCCCTGGCACCCCTCCTCCAAGACACCTCTGGGGGCACAGCGGCCCTGGGTGCCT
S T K G P S V F P L A P S S K S T S G G T A A L G C

GGTCAAGGACTACTTCCCGAACCCTGTCAGGTGTCTGTAAGTCAAGGCGCCCTCACCAGCGCGGTGCACACCTTCCCGG
L V K D Y F P E P V T V S W N S G A L T S G V H T F P

CTGTCTACAGTCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACCCAGACCTAC
A V L Q S S G L Y S L S S V V T V P S S S L G T Q T Y

ATCTGCAACGTGAATCACAAGCCAGCAACACCAAGGTGGACAAGAAAGTTGAGCCCAAACTCTTGACAAAACCTCACAC
I C N V N H K P S N T K V D K K V E P K S C D K T H

ATGCCACCGTGCCAGCACCTGAATCCTGGGGGACCGTCAGTCTTCTCTTCCCCCAAAACCAAGGACACCCCTCA
T C P P C P A P E L L G G P S V F L F P P K P K D T L

TGATCTCCCGGACCCCTGAGGTACATGCGTGGTGGTGGAGCTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTAC
M I S R T P E V T C V V V D V S H E D P E V K F N W Y

GTGGACGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGAGGAGCAGTACAACAGCACGTACCGTGTGGTCAAGCT
V D G V E V H N A K T K P R E E Q Y N S T Y R V V S

CCTCACCGTCTGCACAGGACTGGCTGAATGGCAAGGAGTACAAGTGCAAGGTCTCCAACAAAGCCCTCCAGCCCCCA
V L T V L H Q U W L N G K E Y K C K V S N K A L P A P

TCGAGAAAACCATCTCCAAGCCAAAGGGCAGCCCCGAGAACCACAGGTGTACACCTGCCCCCATCCCGGATGAGCTG
I E K T I S K A K G Q P R E P Q V Y T L P P S R D E M

ACCAAGAACCAGGTGAGCTGACCTGCCTGGTCAAGGCTTCTATCCAGCGACATCGCCGTGGAGTGGGAGAGCAATGG
T K N Q V S L T C L V K G F Y P S D I A V E W E S N

GCAGCCGGAGAACAACTACAAGACCAGCCTCCCGTGTGGACTCCGACGGCTCCTTCTTCTCTATAGCAAGCTCACCG
C Q P E N N Y K T T P P V L D E D G S F F L Y S K L T

TGGACAAGAGCAGGTGGCAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAG
V D K S R W Q Q G N V F S C S V M H E A L H N H Y T Q

AAGAGCCTCTTCCCTGTCCCCGGGTAAATGACTCGAG
K S L S L S P G K

FIG. 7

ctcgagccac	catgggatgg	agctgtatca	tcctcttctt	ggtagcaaca	gctacagggtg	60
tccactccga	ggtccagctg	cagcagctcg	gacctgacct	ggtgaagcct	ggggcttcag	120
tgaagatata	ctgcaaggct	tctggttact	cattcactgg	ctactacatg	caactgggtga	180
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agcttgaaat	caaacgggcc	tccacacaga	gcccatccgt	cttccccctg	acccgctgct	840
gcaaaaaaat	tccctccaat	gccacctccg	tgaactctggg	ctgcctggcc	acgggctact	900
tcccgagcc	ggtgatgggtg	acctgggaca	caggctccct	caacgggaca	actatgacct	960
taccagccac	cacctcagc	ctctctggtc	actatgccac	catcagcttg	ctgacctgtc	1020
cgggtgctg	ggccaagcag	atgttcacct	gcctgtgtgc	acacactcca	tcgtccacag	1080
aclyyylyc	caacaaaacc	ttcagcgtct	gctccaggga	cttcaccccg	cccaccgtga	1140
agatcttaca	gtcgtcctgc	gacggcgggc	ggcacttccc	cccgaccatc	cagctcctgt	1200
gctcgtctc	tgggtacacc	ccagggacta	tcaacatcac	ctggctggag	gacgggcagg	1260
tcattggacgt	ggacttgctc	accgcctcta	ccacgcagga	gggtgagctg	gcctccacac	1320
aaagcgagct	cacctcagc	cagaagcact	ggctgtcaga	ccgcacctac	acctgccagg	1380
tcacctatca	aggtcacacc	tttgaggaca	gcaccaagaa	gtgtgcagat	tccaaccoga	1440
gaggggtgag	cgcctaccta	agccggccca	gcccgttcga	cctgttcac	cgcaagtcgc	1500
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agccccgcaa	gaccaagggc	tccggtctct	tcgtcttcag	ccgcctggag	gtgaccaggg	1980
ccgaatggga	gcagaaagat	gagttcatct	gccgtgcagt	ccatgaggca	gcgagcccct	2040
cacagaccgt	ccagcgagcg	gtgtctgtaa	atccccgtaa	atgagagctc		2090

FIG. 8

atggcttgca	attgtcagtt	gatgcaggat	acaccactcc	tcaagtttcc	atgtccaagg	60
ctcattcttc	tctttgtgct	gctgattcgt	ctttcacaa	tgtcttcaga	tgttgatgaa	120
caactgtcca	agtcagtga	agataaggta	ttgctgcctt	gccgttacaa	ctctccgcac	180
gaagatgagt	ctgaagaccg	aatctactgg	caaaaacatg	acaaagtggg	gctgtctgtc	240
attgctggga	aactaaaagt	gtggcccag	tataagaacc	ggactttata	tgacaacact	300
acctactctc	ttatcatcct	gggcctggtc	ctttcagacc	ggggcacata	cagctgtgtc	360
gttcaaaaaga	aggaagaggg	aacgtatgaa	gttaaacaact	tggctttagt	aaagtgttcc	420
atcaaagctg	acttctctac	ccccaacata	actgagctctg	gaaacccatc	tgacagacact	480
aaaaggatta	cctgctttgc	ttccgggggt	ttcccaaagc	ctcgcttctc	ttggttggaa	540
aatggaagag	aattacctgg	catcaatacg	acaatttccc	aggatcctga	atctgaattg	600
tacaccattta	gtagccaaact	agatttcaal	acyauctcyca	accacacuat	taagtgtctc	660
attaaatatg	gagatgctca	cgtgtcagag	gacttcacct	gggaaaaaac	cccagaagac	720
cctcctgata	gcaagcccg	gggtgggtggg	agcgggtggg	gcggcagtg	cggcggcgga	780
actagtaata	gtgactctga	atgtccccctg	tcccacgatg	ggtactgcct	ccatgatggg	840
gtgtgcatgt	atattgaagc	attggacaag	tatgcatgca	actgtgttgt	tggctacatc	900
ggggagcgat	gtcagtaccg	agacctgaag	tgggtgggaac	tgcgc		945

FIG. 9
CT26-neo Transfectants

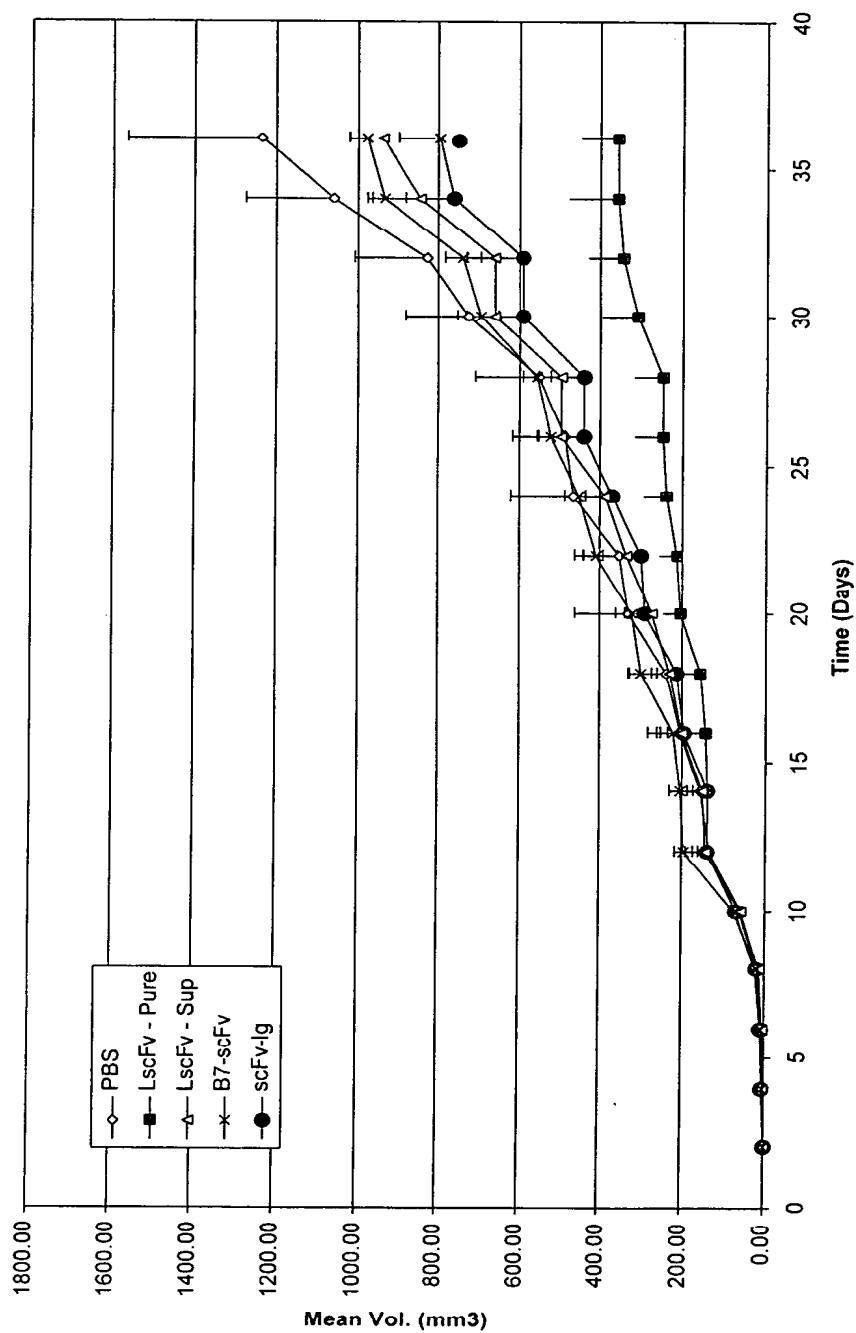


FIG. 10

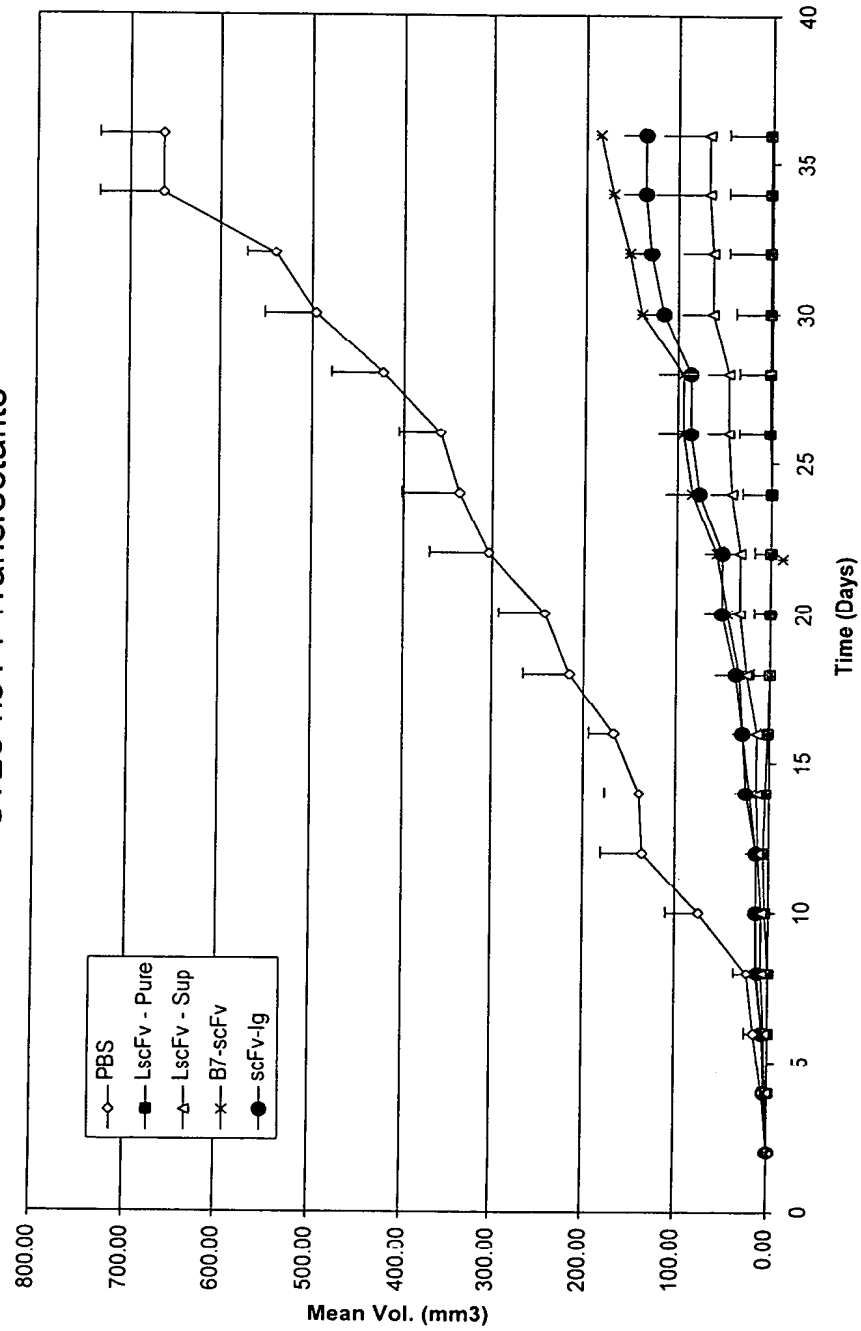


FIG. 11
B16-h5T4 Tumour Growth

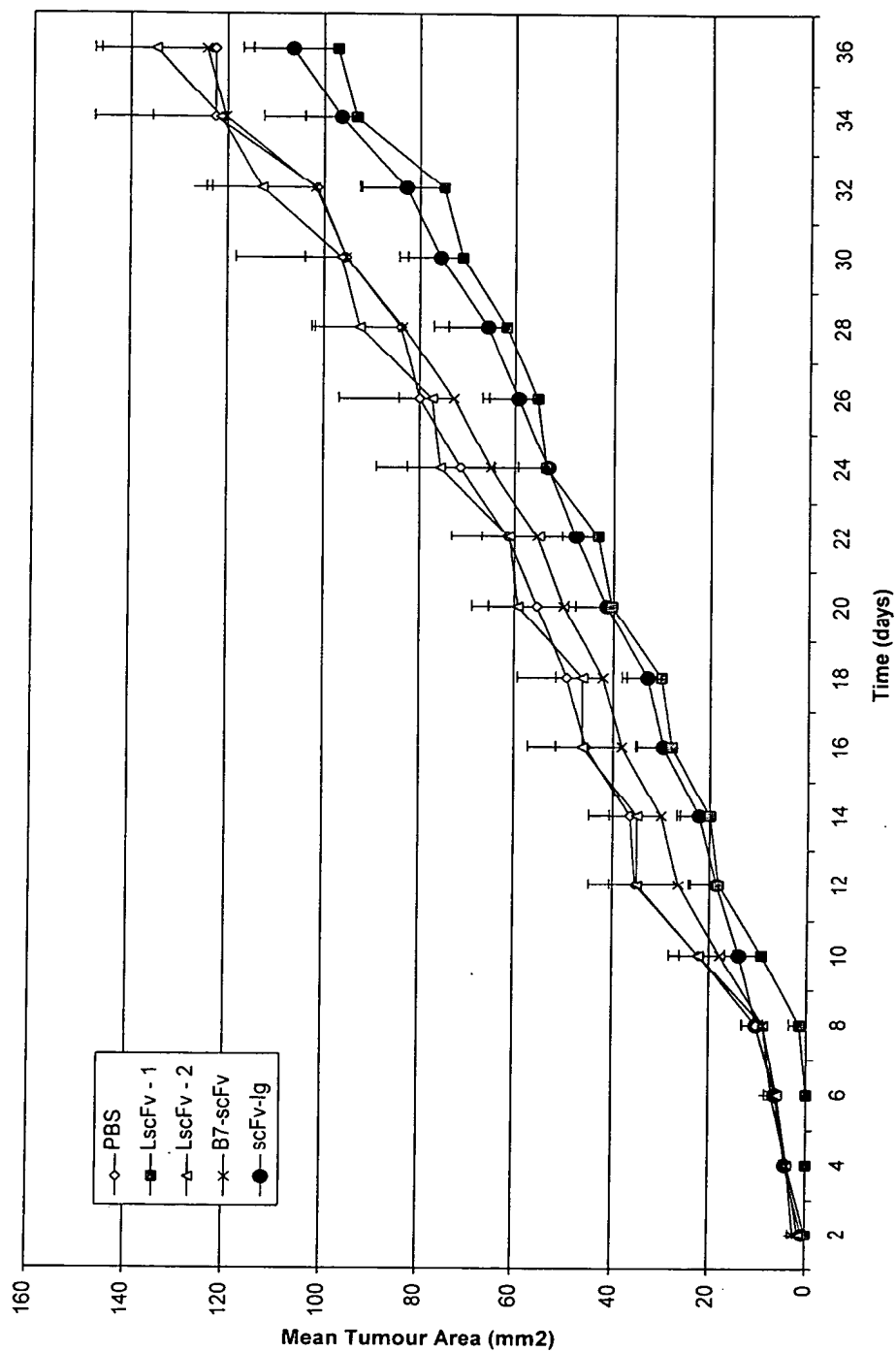
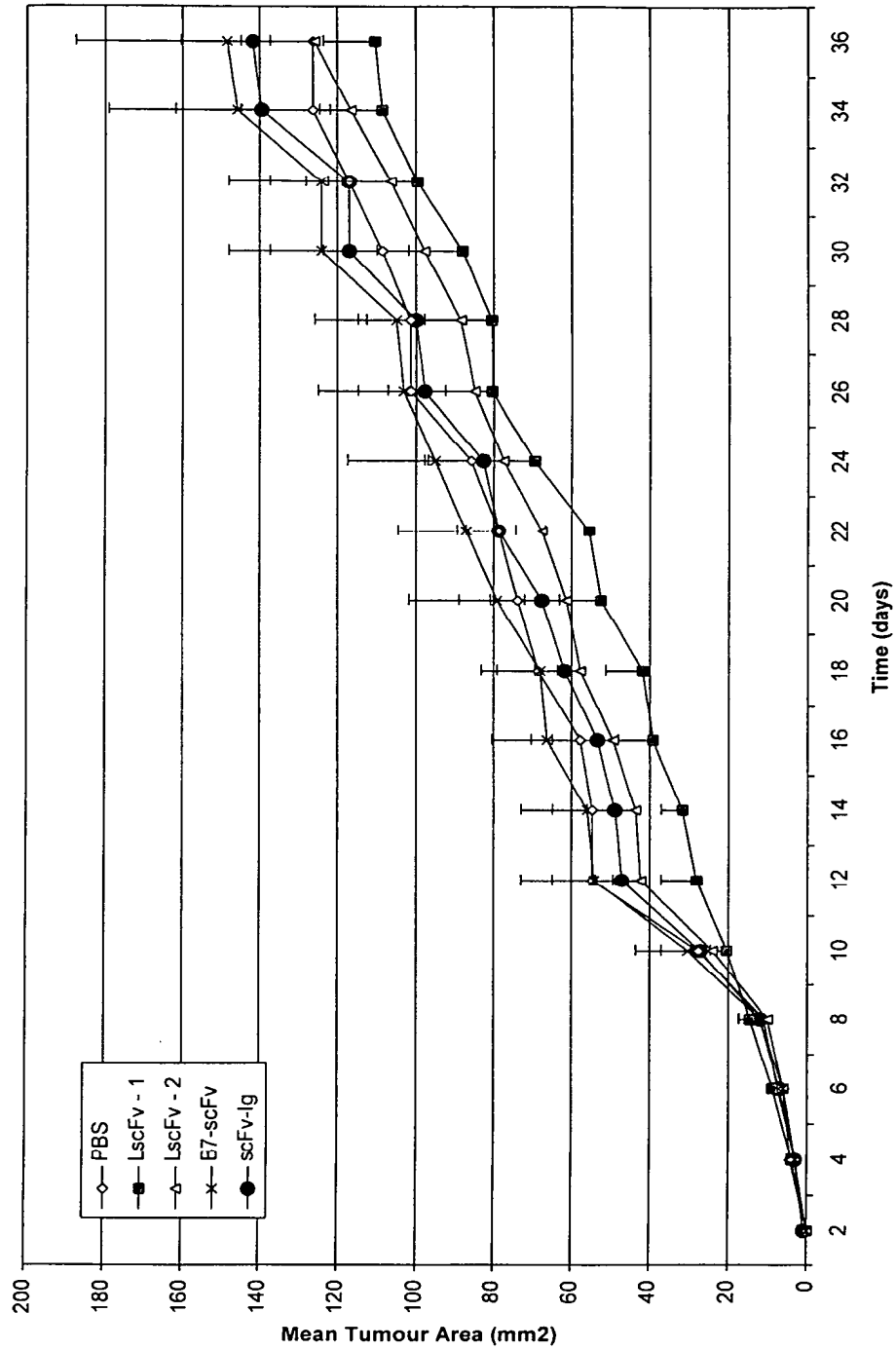


FIG. 12
B16-neoTumour Growth



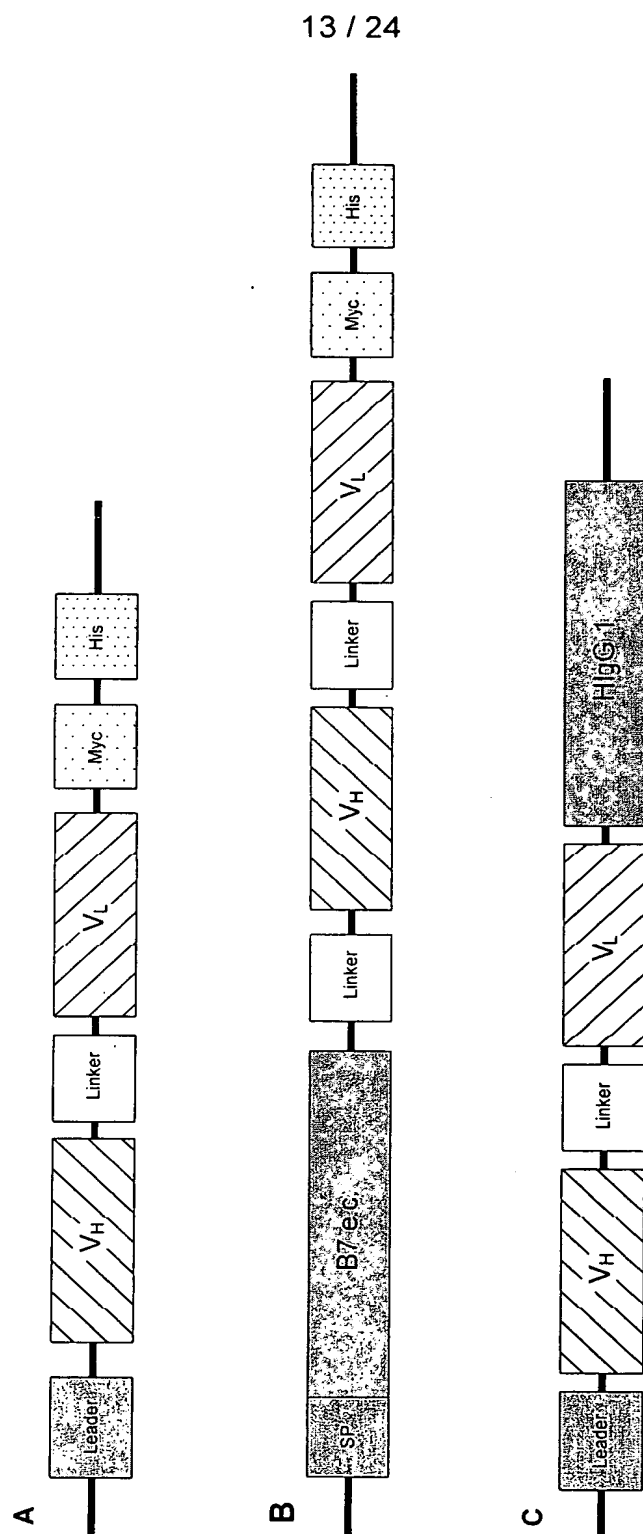


FIG. 13

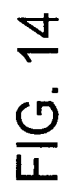
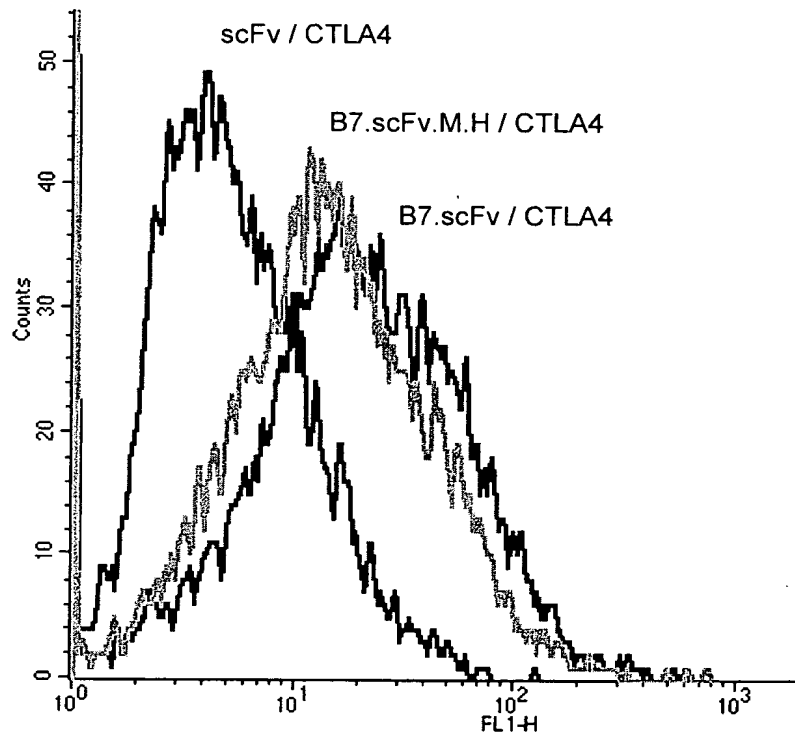


FIG. 15

A9 5T4



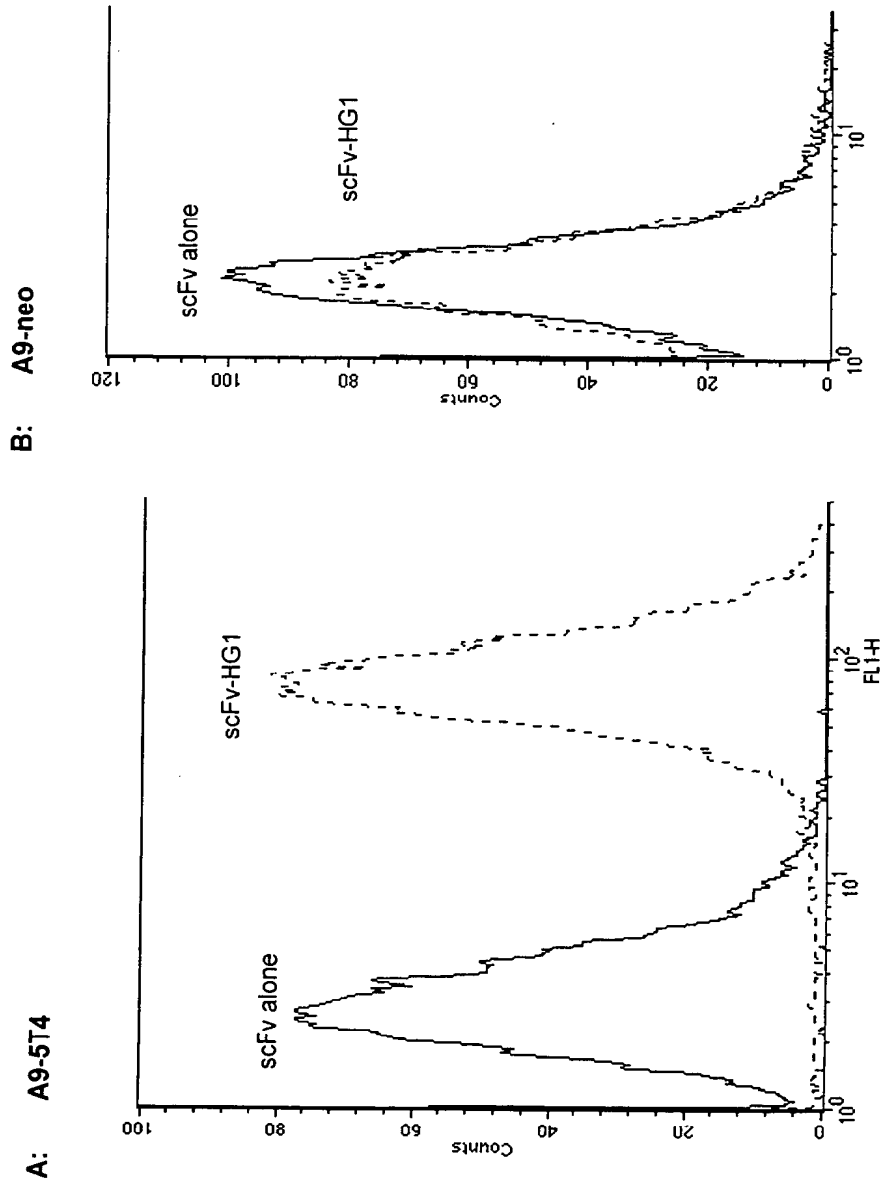


FIG. 16

FIG. 17

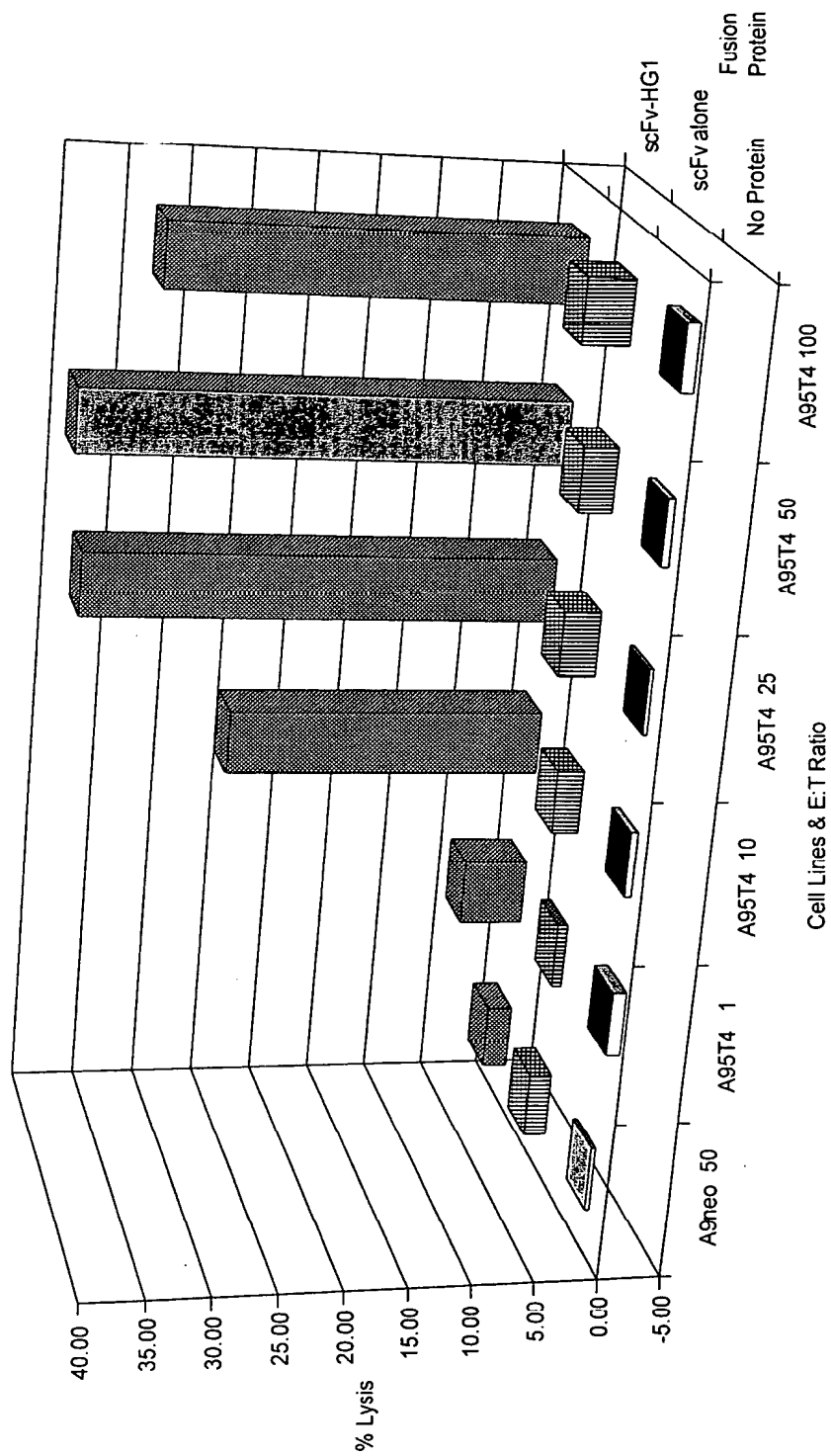
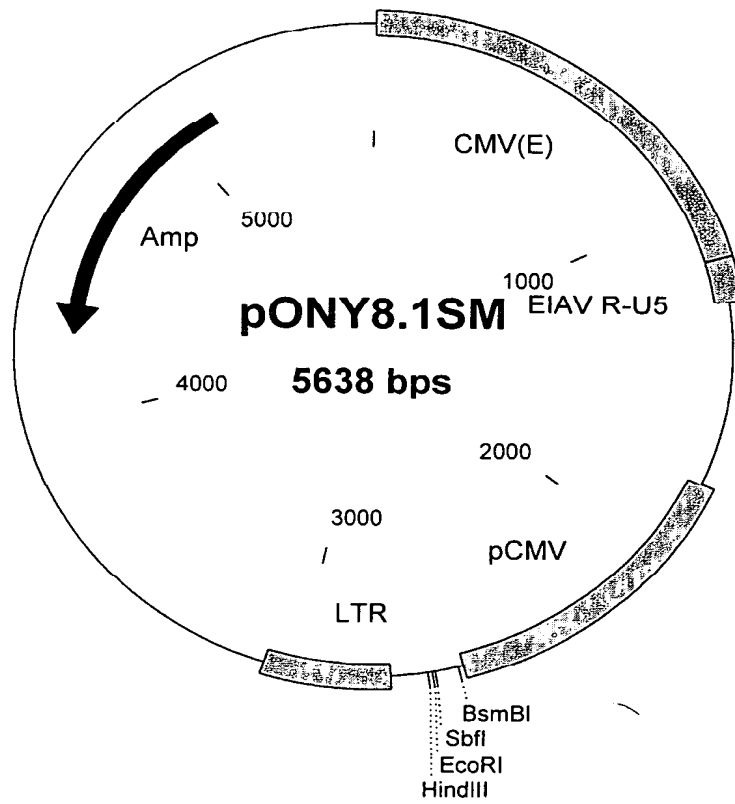


FIG. 17

FIG. 18
pONY8.1SM

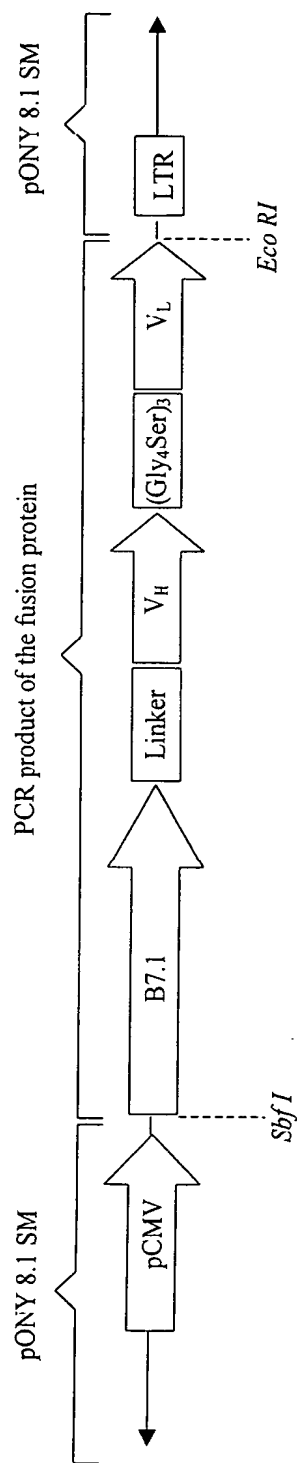


1000 2000 3000 4000 5000

FIG. 19

FUSION PROTEIN CONSTRUCTS IN pONY 8.1 SM

A. B7-5T4scFv



B. L-5T4scFv

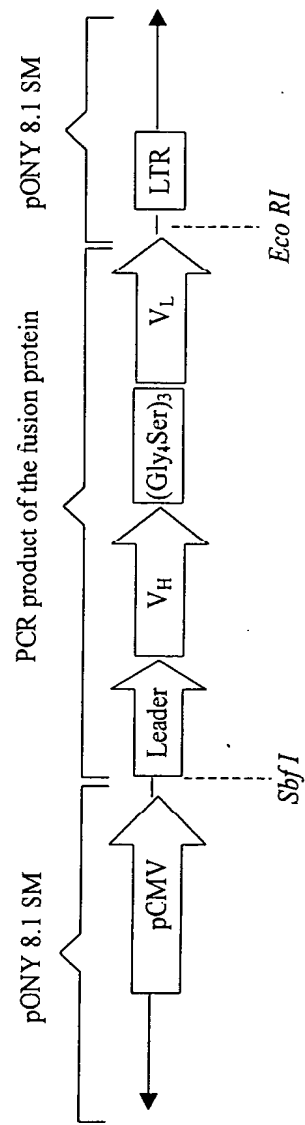


FIG. 20

pKLink – the (Gly₄Ser)₃ linker in pBluescript II SK (pBS II)

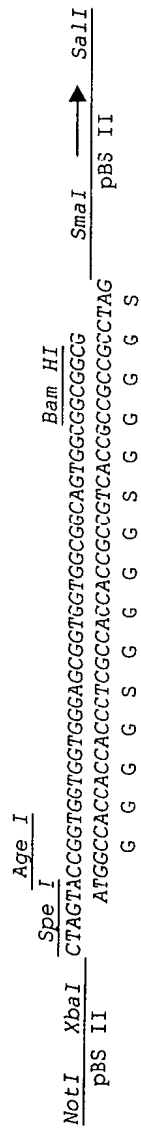


FIG. 21

An scFv and leader sequence in pBSII

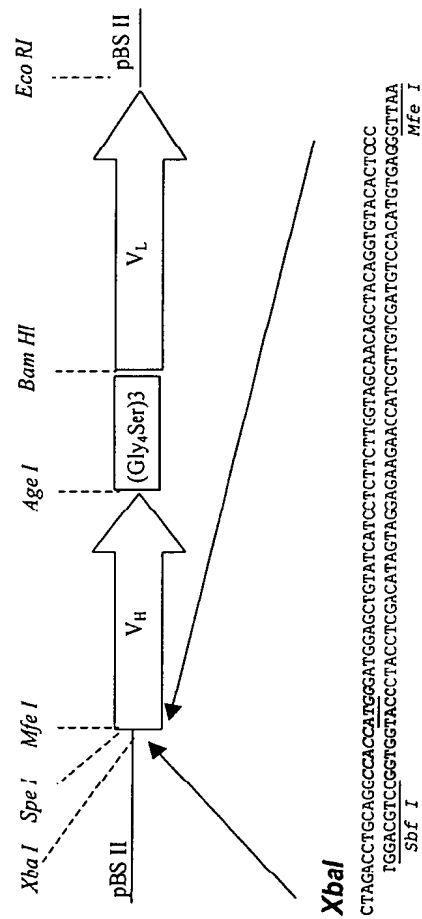


FIG. 22

Leader-IL-5 scFv in pONY 8.1 SM

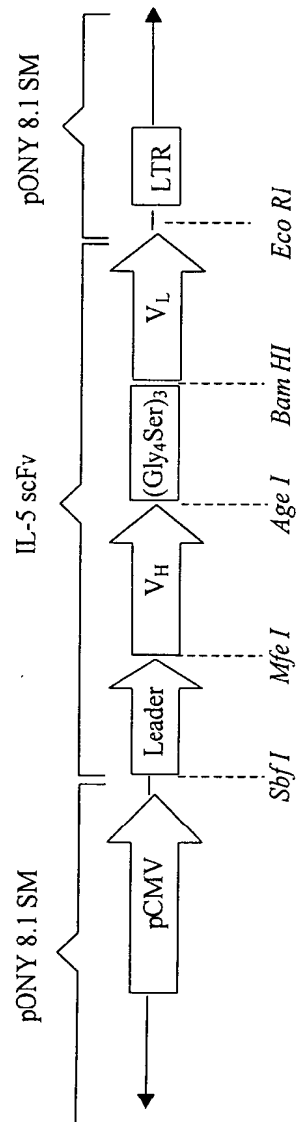


FIG. 23

Leader-HIV gp120 scFv in pONY 8.1 SM

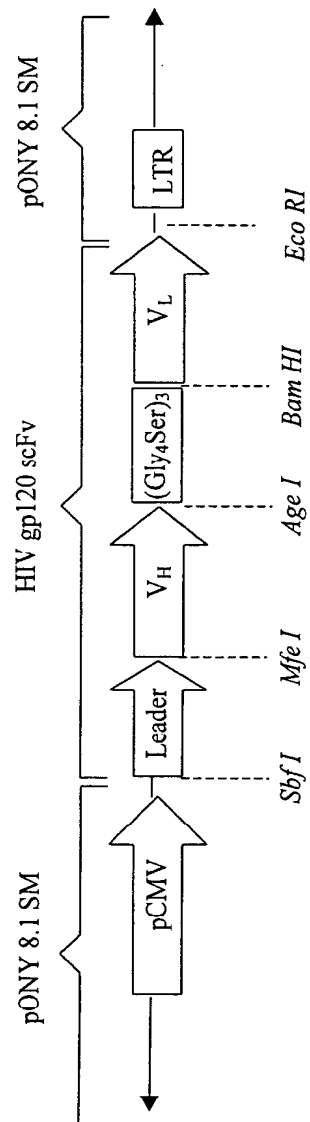


FIG. 24
pAdApt

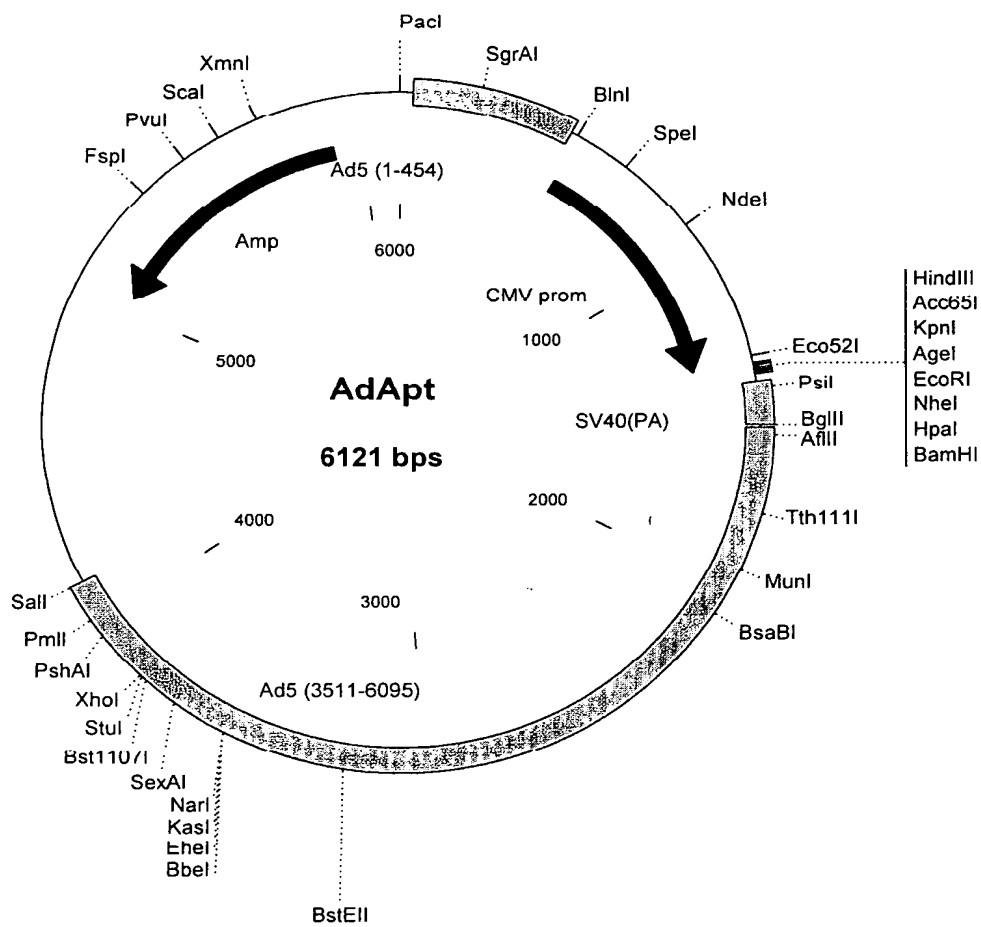


FIG. 25

FUSION PROTEIN CONSTRUCTS IN pAdApt

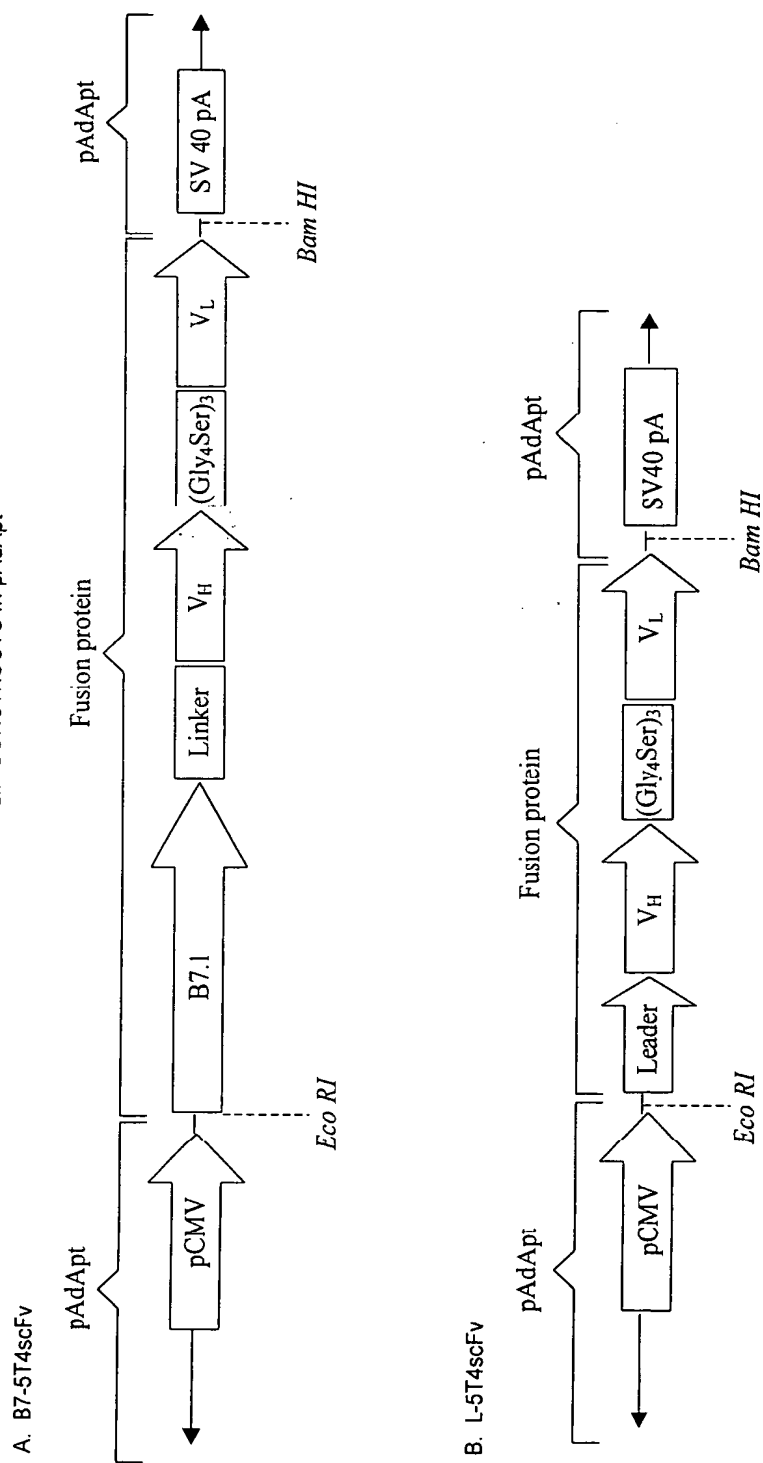


FIG. 26

Canine 5T4 Coding Sequence

ATGCCTGGGGGGTGCTCCCGGGGCCCCGCCCGGGGACGGGCGGTTGCGGCTGGCGCGGCTGGCGCTGGTGTCTCCTGGG 80
 M P G G C S R G P A A G D G R L R L A R L A L V L L
 CTGGGTCTCCTCGTCTCCTCGCTCACCTCCTGGGCGCCCTCCGCCGCGCCTCCACGTCGCCGCCGCGCTCCGCGGCGTCCG 160
 G W V S S S S L T S W A P S A A A S T S P P A S A A S
 CCCC GCCCGCTGCGGGGCCAGTGCCCCAGCCTTGCGAGTGCTCGGAGGCGGCGCGCACGGTCAAGTGCGTTAACCGC 240
 A P P P L P G Q C P Q P C E C S E A A R T V K C V N R
 AACCTGACCGAGGTGCCCCGGGACCTGCCCCCTACGTGCGCAACCTCTTCTCAGGGGCAACCAGCTGGCGGTGTCTGCC 320
 N L T E V P A D L F F Y V R N L F L T G N Q L A V L
 CCCC GGCGCCTTCGCCCGCGCGGCCGCGCTGGCCGAGCTGGCCGCGCTCAACCTGAGCGGCAGCAGCCTGCGGGAGGTGT 400
 P P G A F A R R P P L A E L A A L N L S G S S L R E V
 GCGCGGCGCCTTCGAGCACCTGCCAGCCTGCGCCAGCTCGACCTCAGCCACAACCCGCTGGGCAACCTCAGCGCCTTC 480
 C A G A F E H L P S L R Q L D L S H N P L G N L S A F
 GCCTTCGCGGGCAGCGACGCCAGCCGCTCGGGCCCCAGCCCGCTGGTGGAGCTGATGCTGAACCACATCGTCCCCCCCCGA 560
 A F A G S D A S R S G P S P L V E L M L N H I V P P
 CGACCGGCGGCAGAACCGGAGCTTCGAGGGCATGGTGGCGGCTGCCTCCGAGCGGGCCGCGCTTCGCGGGCTGCAGT 640
 D D R R Q N R S F E G M V A A A L R A G R A L R G L Q
 GCCTGGAGCTGGCCGGCAACCGCTTCTCTACTTGCCTCGCGACGCTCTGGCCAGCTACCCGGCCTCCGGCACCTGGAC 720
 C L E L A G N R F L Y L P R D V L A Q L P G L R H L D
 CTGCGCAACAACCTCCCTGGTGAGCCTCACCTACGTGCTCTCCGCAACCTGACGCACTTGAGAGCCTCCACCTGGAGGA 800
 L R N N S L V S L T Y V S F R N L T H L E S L H L E
 CAACGCCCTCAAGGTCTTCAACAAGCCACCTGGCGGAGCTGCAGAGCCTGCCCCACGTCCGGGTCTTCTGGACAACA 880
 D N A L K V L H N A T L A E L Q S L P H V R V F L D N
 ACCCCTGGGTCTGCGATTGTACATGGCAGACATGGTGGCCTGGCTCAAGGAGACAGAGGTGGTGCCGGGCAAAGCCGGG 960
 N P W V C D C H M A D M V A W L K E T E V V P G K A G
 CTCACCTGTGATTCCCGGAGAAAATGAGGAATCGGGCCCTCTTGGAACTCAACAGCTCCACCTGGACTGTGACCCTAT 1040
 L T C A F P E K M R N R A L L E L N S S H L D C D P
 CCTCCCTCCATCCCTGCAGACTTCTTATGTCTTCTAGGTATTGTCTTAGCCCTGATAGGCGCCATCTTCTACTGGTTT 1120
 I L P P S L Q T S Y V F L G I V L A L I G A I F L L V
 TGTATTTGAACCGCAAGGGGATAAAGAAGTGGATGCATAACATCAGAGATGCCTGCAGGGATCACATGGAAGGGTATCAC 1200
 L Y L N R K G I K K W M H N I R D A C R D H M E G Y H
 TACAGATACGAAATCAATGCAGACCCAGGTTAAACAAACCTCAGTTCCAATTCGATGTCTGA 1263
 Y R Y E I N A D P R L T N L S S N S D V .